| Annual Ear Balance 2004/02/20 - CIA BOB702005700A | .0002 00010015-7 |
|---|-----------------------------|
| Approved For Release 2004/03/26 : CIA-RDP78B05703A | 000200010015=7 |
| MEMORANDUM FOR: Spec. Asst. / NPIC | |
| | |
| A1 - | |
| RED received a 2-hour briefing from |] |
| on 19 March 70 on the same subject. | |
| being the company briefers. We are | , |
| presently studying how this color technique can | |
| be applied to NPIC ops problems. I am ready to discuss this with anytime. | |
| · 1 | |
| Torreted horself (DATE) | |
| homselt (V) | |
| 1 brief tul | ¬ |
| talk to have at this | _ |
| (DATE) | |
| ` \ | |
| FORM NO. 101 REPLACES FORM 10-101 1 AUG 54 101 WHICH MAY BE USED. | (47) |

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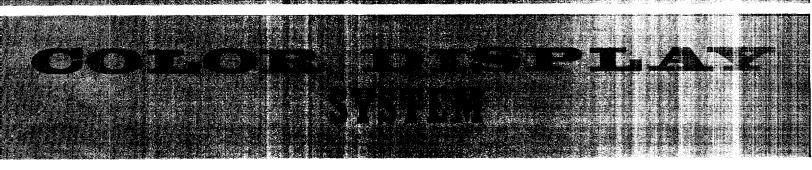
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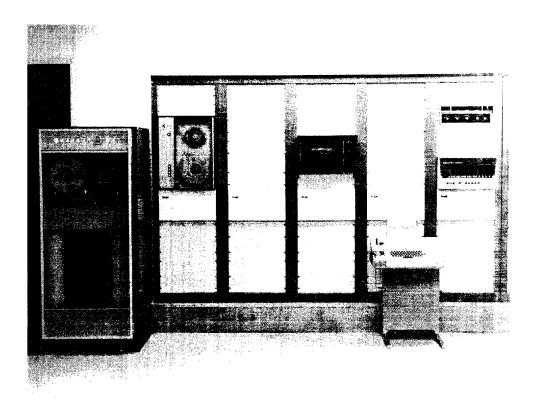
| . MEMORANDUM FOR: Chief, R Nick: | will the same of t |
|--|--|
| The attached was sent to would like you then meet with him to discuss actions. He is thinking in to for to brief you and on this proposal sometime at Let me know when you are reasonable. | to read it and ss the follow-up terms of arranging l your people t your convenience. |
| | 01 |
| | 31 August 1970 |
| | (DATE) |
| RM NO. 101 REPLACES FORM 10-101 | (4 |

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|---|--|---|
| | | |
| • | | V |
| | 11 August 1970 | |
| | Dear Art: | |
| ! | I really believe that this technique has application in matter of your interest and highly recommend | |
| | that you get a briefing from | STAT |
| | Washington Office, | STAT |
| | | |
| | | STAT |
| | Vice Admiral, USN (ret.) | |

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The Microwave Division has developed a highly refined display technique which provides approximately 1% resolution and accuracy in two dimensions and at least 2% resolution and accuracy in the third.

The display technique uses X and Y displacement to describe two dimensions and various combinations of color hue, saturation and luminescence of the three primary colors to display the third dimension. Work to date has shown that the visual acuity of the human eye can discern, on an absolute basis, over fifty different combinations of color hue, saturation and luminescence. It also appears that fifty different color values do not represent the limit of the detection capability of the human eye. Previously, three dimensional presentations provided only changes in luminescence levels to indicate the magnitude of the third dimension. The human eye most readily resolves boundaries between luminescence changes but the eyes ability to detect absolute luminescence magnitudes is limited to about 12 different shades of gray.

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| nations of color hue, sat The color display system of color presentations. T | turation and luming will operate from The system is insta | | third dimension. ent combinations where STA |
|--|---|---|---|
| complete facilities are ava | ailable for the play | back of previously recorded sensor data. | |
| | | | |
| | | | |
| Key Feat | tures: | | |
| | | f three dimensional information with n and accuracy | |
| | ⋆ Rapid translat | ion of large volumes of data | |
| | | anipulation of all three axis information mpensate, or distort the displayed values | |
| | ★ Real time or h information | nard copy presentation of the displayed | |
| | ★ Effortless cha magnitudes of | nging of colors representing various f input data | |
| Applicat | tion: | | |
| | ⋆ Data analysis | and reduction | |
| | | | |
| | | | |
| | | | |
| For furti | her information, co | ontact: | |
| | | | STA |
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Approved For Refease 2004/03/26 : CIA-RDP78B05703A000200010015-7 HIGH RESOLUTION PSEUDO

COLOR DISPLAY OPTIONS

| High Resolution Pseµdo Color Display System Model No. | Scan Conversion & Scan Capability | Color Algorithm Conversion Unit Option Model No. | Color Provisions | Thumbwheel Switches 2200 Series Only | Memory | Loading |
|--|---|---|---------------------|---|---|---|
| SG-D2001 | 16 Data Levels | 2101 | Fixed Color | | Read Only | Individual Circuit Board |
| | : - - | 2201 | Manually Var. | 16 Sets | Thumbwheel Var. | Thumbwheel |
| | | 2301 | Stored Value | | Electronically Alterable | Thumbwheel Mod SG-D2500 Data Preprocessor, other Data Source |
| SG-D2002 | 32 Data Levels | 2102 | Fixed Color | : | Read Only | Individual Circuit Board |
| | | 2202 | Manually Var. | 32 Sets | Thumbwheel Var. | Thumbwheel |
| | | 2302 | Stored Value | | Electronically Alterable | Thumbwheel Mod SG-D2500 Data Preprocessor, other Data Source |
| SG-D2004 | 64 Data Levels | 2104 | Fixed Color | | Read Only | Individual Circuit Board |
| | | 2204 | Manually Var. | 64 Sets | Thumbwheel Var. | Thumbwheel |
| | | 2304 | Stored Value | | Electronically Alterable | Thumbwheel Mod SG-D2500 Data Preprocessor, other Data Source |
| SG-D2008 | 128 Data Levels | 2108 | Fixed Color | | Read Only | Individual Circuit Board |
| | | 2208 | Manually Var. | 128 Sets | Thumbwheel Var. | Thumbwheel |
| | | 2308 | Stored Value | | Electronically Alterable | Thumbwheel Mod SG-D2500 Data Preprocessor, other Data Source |
| \$G-D2010 | 1024 Data Levels | None Required | None Required | None Required | Does not require any additional equipment to accept parallel data | |
| SG-D2400 | Test Pattern & Color S | Study Generator | | | Applicable to all SG-D2000 Series Display Units - Provides all necessary functions for monitor setup and evaluation of given color algorithms. DOES NOT REQUIRE DATA INPUT. | |